Husky

Recommended Installation, Maintenance and Inspection Instructions

Pressure Activated Vacuum Assist Vapor Recovery Nozzles

V34

6200041 6250041 6250431 ~6536041 11996041 14373264N

See Listings for details

Important safety instructions - save these instructions in a readily accessible location.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

⚠ WARNING Designed for use at motor fuel dispensing facilities only.

INSTALLATION INSTRUCTIONS

1. Turn off dispenser and relieve line pressure.
2. Start the fuel hose into the nozzle body. Do not use thread sealants (Teflon® tape, anti-seize, or any other kind of sealant).
3. Tighten firmly, approximately 15 - 20 lbf•ft / 20.3 - 27.1 N•m, but do not overtighten.
4. Pressurize system and visually inspect for leaks.
5. Test nozzle for proper automatic shut off between 5 - 10 gpm / 18.9 - 37.9 Lpm.
6. Perform pressure activation test (no pressure / no flow test).

DO NOT OVERTIGHTEN. USE WRENCH ON HOSE NUT ONLY.

IF DRIVE OFF OCCURS

- Turn off dispenser and relieve line pressure.
- Visually check for fractured spout shear groove.
- Pressurize system and visually inspect for leaks.
- Check spout tip - should be in round and sensing port should be clear of debris.
- Perform flow test of nozzle automatic shut off between 5 - 10 gpm / 18.9 - 37.9 Lpm.
- Check for electrical conductivity.
- Perform pressure activation test (no pressure / no flow test).
- Refer to city, state and federal requirements for vapor integrity testing.

TESTING / MAINTENANCE / INSPECTIONS

Daily
- Check for leaks / stains.
- Check for loose spouts.
- Check for damage.
- Check for bent lever.
- Check for broken clip / trigger spring.
- Check for damaged or torn bellows.

Monthly
- Check no pressure / no flow.
- Check nozzle automatic shut off between 5 - 10 gpm / 18.9 - 37.9 Lpm.
- Check "remove after" date.

Annually
- Check for electrical conductivity.
- Lubricate main valve stem.
- Conduct Vapor Valve Leak Rate test.
- Conduct Fuel Valve Leak test.
- All drive aways, maintenance and inspection activities must be logged using the serial number of the individual product.
- Apply city, state, or federal testing regulations as appropriate.
- *ANY TEST / INSPECTION FAILURE REQUIRES IMMEDIATE EQUIPMENT REPLACEMENT OR REMOVAL FROM SERVICE.*

The following are the approved test procedures to be used on Husky Vacuum Assist nozzles. Any non-approved methods used will void the warranty.

TEST ORDER	APPROVED PROCEDURE
Nozzle Vapor Valve Leak Rate test	CARB TP-201-2B
2" H_2O static pressure performance test	CARB TP-201.3 (test with nozzle in the dispenser)
Air to Liquid Ratio	CARB TP-201.5 (use Husky's A/L adaptor)

Refer to dispenser manufacturer's requirements for maintenance.

MADE IN THE USA

ALWAYS ADHERE TO INSTALLATION / USAGE INSTRUCTIONS AND WARNINGS.
Improper use may result in injury, damage, or hazardous spill.

GENERAL WARNINGS / INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS:

- Use of equipment is at individuals' own risk.
- Always abide and adhere to city, state, and federal regulations regarding use and installation of dispensing equipment.
- Always follow the product manufacturer's installation and maintenance instructions.
- Always turn off all power to dispenser during maintenance and inspection activities.
- Always close the shear valves during maintenance and inspection activities.
- Always relieve pressure from system prior to performing maintenance activities.
- Always check continuity after installation using a megohmeter (Refer to PEI RP 400 for details).
- Always replace or remove from service damaged or leaking dispensing equipment immediately.
- Always report leaks / spills / accidents to appropriate authorities.
- Always wear appropriate safety equipment during maintenance activities.
- Always have appropriate fire extinguishing equipment within 5 ft / 1.5 m of dispensers.
- Never use thread sealant (Teflon tape, anti-seize or any other kind of sealant).
- Always place containers on the ground before filling.
- Always discharge static electricity before using or servicing equipment by touching a metal part of the dispenser before and after fueling vehicle.
- Never smoke within 20 ft / 6.1 m of dispensers.
- Never keep in service past recommended life.
- Never leave the nozzle unattended while dispensing fuel.
- Never use sparking or flaming devices within 20 ft / 6.1 m of dispensers.
- Never use power tools near dispensers or to aid in the installation process.
- Never use cell phone within 20 ft / 6.1 m of dispensers.
- Never reenter car when fueling vehicle.
- Never allow gasoline to touch eyes or skin.
- Never use at flow rates in excess of regulatory guidelines.
- Never use at flow rates less than 5 gpm / 18.9 Lpm.
- Never dispense flammable material into unapproved containers.
- Never dispense fuel without a valid driver's license.

CAUTION: DO NOT TOP OFF!

Topping off can lead to spills and splashes.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS IN A READILY ACCESSIBLE LOCATION.

WARRANTY

VAPOR PRODUCTS – Husky Corporation will, at its option, repair, replace, or credit the purchase price of any Husky® manufactured product which proves upon examination by Husky, to be defective in material and/or workmanship for a period of one (1) year of installation or fifteen (15) months from the manufacture date of shipment by Husky, whichever occurs first. The warranty period on repaired or replacement vapor recovery products is only for the remainder of the warranty period of the defective product.

CONVENTIONAL PRODUCTS – Husky Corporation will, at its option, repair, replace, or credit the purchase price of any Husky manufactured product which proves upon examination by Husky, to be defective in material and/or workmanship for a period of one (1) year from the manufacture date of shipment by Husky.

Buyer must return the products to Husky, transportation charges prepaid. This Warranty excludes the replaceable bellows, bellows spring assembly, spout assembly and scuff guard, unless (i) damage is obvious when the product is removed from shipping carton and (ii) the defective product is returned to Husky prior to use. This warranty does not apply to equipment or parts which have been installed improperly, damaged by misuse, improper operation or maintenance, or which are altered or repaired in any way.

The warranty provisions contained herein apply only to original purchasers who use the equipment for commercial or industrial purposes. There are no other warranties of merchantability, fitness for a particular purpose, or otherwise, and any other such warranties are hereby specifically disclaimed.

Husky assumes no liability for labor charges or other costs incurred by Buyer incidental to the service, adjustment, repair, return, removal or replacement of products. Husky assumes no liability for any incidental, consequential, or other damages under any warranty, express or implied, and all such liability is hereby expressly excluded.

Husky reserves the right to change or improve the design of any Husky fuel dispensing equipment without assuming any obligations to modify any fuel dispensing equipment previously manufactured.

OPERATION INSTRUCTIONS

1. Activate dispenser.
2. Insert spout into fill pipe opening.
3. Lower hose end of nozzle so the spout ring catches the inside of the fill pipe.
4. Raise the lever and begin fueling.
5. Nozzle will shut off automatically when the tank is full.
6. Wait 15 seconds to allow any fuel remaining in the spout to drain.
7. Remove nozzle from fill pipe by raising hose end of the nozzle.
8. Return nozzle to nozzle boot.

NOTE: Nozzle is equipped with a unique Flo-Stop® device that shuts off the nozzle if it falls from the fill pipe or raises above horizontal.

PRESSURE ACTIVATION TEST INSTRUCTIONS

1. Verify nozzle has hold open clip.
2. Verify dispenser is turned off.
3. Place nozzle spout into test can.
4. Pull up lever and latch clip a small amount of fuel may flow until line pressure is relieved.
5. Turn on dispenser and select grade nozzle should not dispense fuel.
6. Release the lever.
7. Pull up lever and latch clip nozzle should dispense fuel.
8. Turn off dispenser nozzle should stop dispensing fuel.
9. Turn dispenser on and select grade - nozzle should not dispense fuel.

NOTE: The no pressure / no flow device fulfills the NFPA Code 30A requirement regarding self-service nozzles with a hold open latch. If nozzle fails item #5 or #9, verify dispenser is not allowing constant pressure to the hose. If dispenser tests OK, replace nozzle.

FLO-EQUALIZER® INSTALLATION INSTRUCTIONS

Model #005837 Vacuum-Assist Flo-Equalizer®

1. Turn off dispenser and relieve line pressure.
2. Lubricate the o-rings.
3. DO NOT use Teflon tape.
4. Tighten firmly, approximately 15 - 20 lbf•ft / 20.3 - 27.1 N•m, but do not overtighten.
5. Confirm nozzle is properly installed, pressurize the system and check for leaks.

NOTE: In the event of pressure differential in excess of 25 psi / 1.7 bar across the Flo-Equalizer® or the presence of debris obstructing movement of internal components, the Flo-Equalizer® output may exceed 10 gpm / 37.9 Lpm.

TROUBLESHOOTING GUIDE

Nozzle keeps shutting off or won't dispense...	1. Make sure dispenser is on and activated. 2. Slow down flow rate - use lower notch on clip. 3. Clean spout tip end. 4. Clean or replace filter. 5. Inspect Safe-T-Break®. 6. Replace spout assembly. 7. Check dispenser pressure - 19 psi / 1.3 bar required to activate the nozzle. 8. Remove nozzle & drain hose.
Nozzle won't shut off...	1. Check flow rate - minimum of 3 gpm / 11.4 Lpm required. 2. Remove nozzle and drain hose.
Nozzle leaking...	1. Check for loose spout. 2. Check inner hose for leaks. 3. Check for cracks in nozzle and hose threads. 4. Check o-rings on inner hose at nozzle inlet.
Low flow rate...	1. Remove Flo-Equalizer® (if equipped). 2. Verify dispenser is not in slow flow rate mode. 3. Check for system leak.
Flow rate above 10 gpm / 37.9 Lpm...	1. Verify Flo-Equalizer® being used - either inside or outside dispenser. 2. Check Flo-Equalizer® for debris.
Fails pressure decay test...	1. Replace nozzle if leak is greater than 3 cubic inches per minute.
Fuel in vapor side...	1. Check for meter creep. 2. Check o-rings on inner hose.

GENERAL TECHNICAL DATA

Fuel Type	Test and warranty for gasoline
Flow Rate	Unleaded w/o Flo-Equalizer® = 10 gpm / 37.9 Lpm (**V34 ORVR** not to be used w/ Flo-Equalizer®)
Body	Sand cast aluminum
Disc	Fluorocarbon
Packing	Double o-ring seal protected by fiber reinforced Teflon®
Lever	Two Piecr Polymer EZ Lever
Shipping Weight	4 lbs / 1.8 kg
Threads	**V34** = M34 x 1.5 **V34 ORVR** = 1¼ - 18 thread
Spout	Unlead = 13/16 in / 20.6 mm O.D.
Case Quantity	15

Listings	**V34** = AIR RESOURCES BOARD, UL	*MOD: V34,V34i,& V34iS II 1 G EN 130012 Type 1 TÜV, U P-TÜV-8113626984	~**V34 ORVR** = Texas Commission on Environmental Quality, UL	^ NOT LISTED

HOLD OPEN CLIP REMOVAL INSTRUCTIONS

REMOVAL

1. Remove nozzle from hose and drain.
2. Place nozzle on a flat surface in safe location.
3. Hold up on the latch clip to prevent rivet from rotating.
4. Drill off the riveted end using a ¼" / 6.4 mm bit.
5. Do not remove latch plate.

NOTE: Nozzles can be ordered without clips.

VAPOR SPLASH GUARD (VSG) REPLACEMENT INSTRUCTIONS

Model 004000 VSG with clamp;
Model 006656 ORVR VSG with clamp

1. Remove the old clamp and VSG.
2. Put the new clamp on the new VSG and slide assembly over the spout.
3. Confirm the hole in the VSG is at either the 10 or 2 o'clock position of the nozzle.
4. Tighten the clamp firmly so the VSG will not rotate.

SPOUT REPLACEMENT INSTRUCTIONS

Model 006291 V34 Spout Assembly Kit;
006391 V34 Spout Assembly;
006663 V34 ORVR Spout Assembly Kit

1. Remove VSG, clamp, spout lock nut, spout and spout seal ring. Make sure the vent tube guide spring remains inserted in the venturi assembly inside of the nozzle body.
2. Install new spout seal ring.
3. Install new spout into nozzle body, making sure the vent tube is inserted over the vent tube guide spring.
4. While holding the spout in proper alignment, tighten spout lock nut firmly, approximately 35 - 60 lbf•ft / 47 - 81 N•m. Do not overtighten.
5. Install VSG (see vapor guard replacement instructions).
6. Test nozzle prior to returning to service.

GUARD REPLACEMENT INSTRUCTIONS

NOZZLE GUARD
Model 006951

1. Turn off dispenser and relieve the line pressure.
2. Remove nozzle from hose.
3. Remove vapor guard clamp (discard).
4. Remove vapor guard (VSG).
5. Remove old guard.
6. Install new guard over spout and pull back to cover nozzle body.
7. Slide new vapor guard clamp onto VSG (do not tighten).
8. Slide VSG over the spout.
9. Align hole in VSG to the 10 or 2 o'clock position of the nozzle.
10. Rotate vapor guard clamp until the ears are to the lower side of the nozzle then tighten firmly.
11. Reinstall nozzle to hose.
12. Test nozzle for automatic shut off.

NOZZLE REGUARD
Model 004231

1. Remove vapor guard clamp (discard).
2. Remove vapor guard (VSG).
3. Cut old guard at nozzle inlet and remove from nozzle.
4. Install new reguard over spout and pull back to cover nozzle body.
5. Pull tie through the eyelets and loop under nozzle inlet.
6. Pull tightly and trim off excess tie.
7. Slide new vapor guard clamp onto VSG (do not tighten).
8. Slide VSG over the spout.
9. Align hole in VSG to the 10 or 2 o'clock position of the nozzle.
10. Rotate vapor guard clamp until the ears are to the lower side of the nozzle then tighten firmly.
11. Test nozzle for automatic shut off.

POPD® GUARD
Model 006660

1. Turn off dispenser and relieve the line pressure.
2. Remove nozzle from hose.
3. Remove vapor guard clamp (discard).
4. Remove vapor guard (VSG).
5. Remove old guard.
6. Install new POPD® guard over spout and pull back to cover nozzle body.
7. Slide new vapor guard clamp onto VSG (do not tighten).
8. Slide VSG over the spout.
9. Align hole in VSG to the 10 or 2 o'clock position of the nozzle.
10. Rotate vapor guard clamp until the ears are to the lower side of the nozzle then tighten firmly.
11. Reinstall nozzle to hose.
12. Test nozzle for automatic shut off.
13. Install desired advertisement and clear cover (model 006628).

POPD® CLEAR COVER
Model 006628

1. Trim advertisement to 3.75 in / 95.25 mm x 3.75 in / 95.25 mm.
2. Notch corners of advertisement approximately .375 in / 9.5 mm x .375 in / 9.5 mm.
3. Turn clear cover "inside out".
4. Center advertisement on POPD® guard, using the notched corners as guides, and fold over the edges.
5. Lay clear cover over advertisement, making sure the advertisement stays centered, and turn it "right side out".
6. Confirm the cover is securely in place.

POPD® REGUARD
Model 007220

1. Remove vapor guard clamp (discard).
2. Remove vapor guard (VSG).
3. Cut old nozzle guard at nozzle inlet and remove from nozzle.
4. Install new POPD® reguard over spout and pull back to cover nozzle body.
5. Pull zip tie through the eyelets and loop under nozzle inlet.
6. Pull tightly and trim off excess tie.
7. Slide new vapor guard clamp onto VSG (do not tighten).
8. Slide VSG over the spout.
9. Align hole in VSG to the 10 or 2 o'clock position of the nozzle.
10. Rotate vapor guard clamp until the ears are to the lower side of the nozzle then tighten firmly.
11. Test nozzle for automatic shut off.
12. Install desired advertisement and clear cover (model 006628).

ACCESSORIES

Model 004039 - Vapor guard (VSG) clamp
Model 006497 - Vapor guard (VSG) clamp tool
Model 004360 - Air / Liquid test kit / spout adaptor
Model 005260 - Vapor valve tool for dry A/L test
Model 000397 - Unlead spout gauge
Model 005233 - O-ring Kit